Solve the given system using substitution and/or elimination. Classify the system as having one solution, no solutions, or infinite solutions. Check your answer both algebraically and graphically.

$$\begin{cases} \frac{x+2y}{4} = -5\\ \frac{3x-y}{2} = 1 \end{cases}$$

**Exercise** 1 Classify this system as having one solution, no solutions, or infinite solutions.

Multiple Choice:

- (a) one solution  $\checkmark$
- (b) no solutions
- (c) infinite solutions

**Exercise** 1.1 The solution to this system is  $\left( -\frac{16}{7}, -\frac{62}{7} \right)$ .